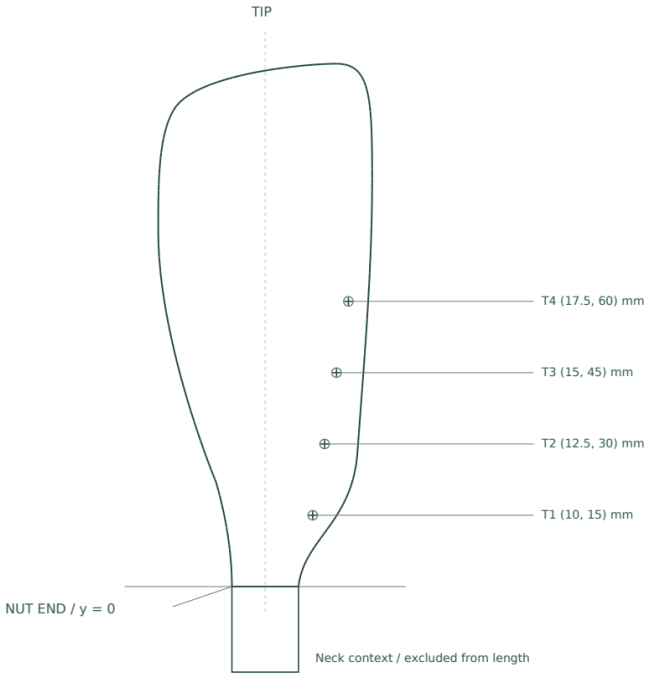
Scale Drawing a Bass Guitar Headstock with Tuner Layout

Ordinary topic reference / separately checked pixels

Hypothetical bass coordinates / converted DRAWN mm print 1:1 / no hardware standard



Given 220 / 2 = 110 mm length; 90 / 2 = 45 mm max width. Legacy 45 / 2 = 22.5 mm is usable only as a declared half-width datum, NOT distance between the intersecting axes. Centers labelled (x,y); adjacent vertical span 15 mm, true distance about 15.21 mm. Hole circles are chosen 2 mm symbols only. Neck context is not counted in headstock length.

Scale Drawing a Bass Guitar Headstock with Tuner Layout

Original worked example / unchanged complete key

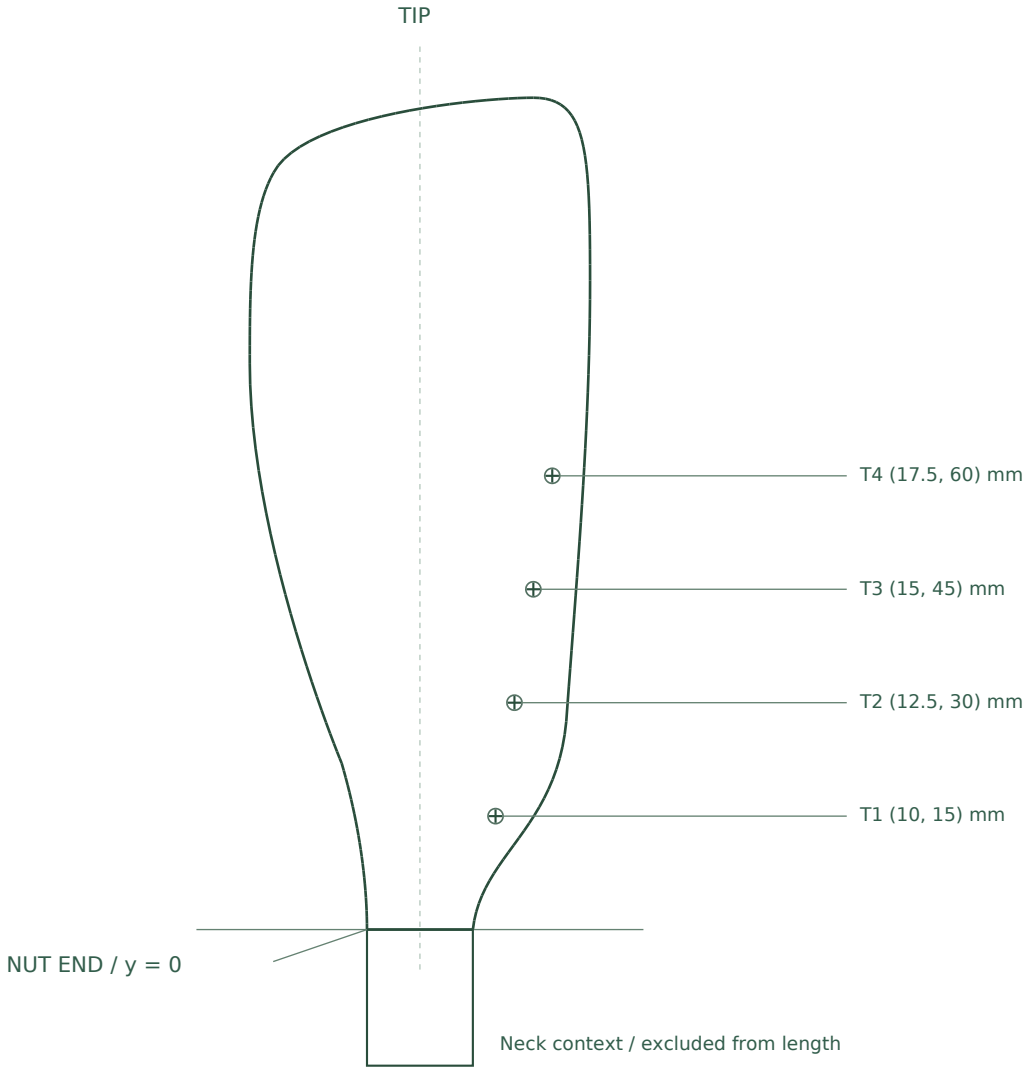
Prompt: A hypothetical bass headstock has overall length 220 mm, maximum width 90 mm, and baseline-to-midline distance 45 mm. Four tuner holes have baseline distances 30, 60, 90, and 120 mm and midline offsets 20, 25, 30, and 35 mm to the right. Draw at 1:2 scale and state the converted values and one spacing check.

Answer: Arithmetic conversion at 1:2 gives length 110 mm, maximum width 45 mm, and the legacy 45 mm value converts numerically to 22.5 mm. The phrase baseline-to-midline distance is inconsistent with a horizontal baseline and vertical centerline: those axes intersect. If explicitly interpreted as half the maximum width from a left side datum to the centerline, the value 22.5 mm agrees with 45 / 2, but it is not a distance between the axes. Under that declared interpretation the four centers are (10,15), (12.5,30), (15,45), (17.5,60) mm, with x right and y up. Consecutive vertical differences are 15 mm; actual adjacent center distances are sqrt(15^2 + 2.5^2), about 15.21 mm, not 15 mm. A chosen outline can span 110 by 45 mm and contain those centers, but those overall dimensions alone do not fix a unique headstock shape or hole diameter.

Scale Drawing a Bass Guitar Headstock with Tuner Layout

Worked reference / reference

Hypothetical bass coordinates / converted DRAWN mm print 1:1 / no hardware standard



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